

Title (en)
OBJECT RECOGNITION BY AN ACTIVE OPTICAL SENSOR SYSTEM

Title (de)
OBJEKTERKENNUNG DURCH EIN AKTIVES OPTISCHES SENSORSYSTEM

Title (fr)
RECONNAISSANCE D'OBJET PAR UN SYSTÈME DE CAPTEUR OPTIQUE ACTIF

Publication
EP 4128020 A1 20230208 (DE)

Application
EP 21715165 A 20210322

Priority
• DE 102020108473 A 20200327
• EP 2021057177 W 20210322

Abstract (en)
[origin: WO2021191102A1] According to a method for object recognition by an active optical sensor system (2), a detector unit (2b) detects light (3b) reflected off an object (4) and generates a sensor signal (5a, 5b, 5c, 5d, 5e, 5f) on the basis thereof. A computing unit (2c) ascertains a first pulse width (D1) defined by a predetermined first limit value (G1) for an amplitude of the sensor signal (5a, 5b, 5c, 5d, 5e, 5f) as well as a second pulse width (D2) defined by a predetermined second limit value (G2). The signal pulse is assigned to one of at least two categories according to at least one predefined signal pulse parameter, and a scatter plot for object recognition is generated, said scatter plot containing exactly one entry for the signal pulse, said entry corresponding to the first pulse width (D1) or to the second pulse width (D2) according to the category to which the signal pulse belongs.

IPC 8 full level
G01S 17/10 (2006.01)

CPC (source: EP KR US)
B60W 60/00 (2020.02 - US); **G01S 7/4802** (2013.01 - EP KR); **G01S 7/4865** (2013.01 - US); **G01S 7/487** (2013.01 - EP KR); **G01S 17/89** (2013.01 - US); **G01S 17/931** (2020.01 - EP KR US); **G06V 20/56** (2022.01 - EP KR); **B60W 2420/408** (2024.01 - US); **G06F 2218/16** (2023.01 - EP KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020108473 A1 20210930; CN 115485745 A 20221216; EP 4128020 A1 20230208; KR 20220147656 A 20221103; US 2023152457 A1 20230518; WO 2021191102 A1 20210930

DOCDB simple family (application)
DE 102020108473 A 20200327; CN 202180031362 A 20210322; EP 2021057177 W 20210322; EP 21715165 A 20210322; KR 20227033589 A 20210322; US 202117914996 A 20210322